## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1. (Currently amended) A method to repel an insect comprising applying to an object an insect repellent comprising at least one acetal or semi-acetal of an acyclic terpene ( $C_{10}$ ), wherein the acetal or semi-acetal radicals in each case themselves represent a terpene radical ( $C_{10}$ ) to an object said acyclic terpene is an acyclic terpene radical having two oxygen atom radicals with i) a terpene radical attached to one of said oxygen atom radicals and a hydrogen attached to the other oxygen atom radical or ii) a terpene radical attached to each of said oxygen atom radicals.
- 2. (Withdrawn Currently amended) The method according to Claim 1, wherein the acetal or semi-acetal radicals are in each case terpene radical is saturated.
- 3. (Currently amended) The method according to Claim 1, wherein the acetal or semi-acetal radicals are in each case terpene radical is single or double unsaturated.
- 4. (Currently amended) The method according to Claim 1, wherein the <u>acyclic</u> terpene  $\frac{\text{radical}}{\text{Cl}_{10}}$  exhibits one of the following structures:

5. (Withdrawn - Currently amended) The method according to Claim 4, wherein the acyclic terpene radical  $(C_{10})$  exhibits the following structure:

- 6. (Withdrawn Currently amended) The method according to Claim 1, wherein the acetal acyclic terpene is a cis-3,7-dimethyl-2,6-octadienal-trans-3,7-dimethyl-2,6-octadienyl-acetal (neral geranylacetal, Structure <u>5a</u>) or a cis-3,7-dimethyl-2,6-octadienal-di(trans-3,7-dimethyl-2,6-octadienyl)-acetal (neral digeranylacetal, Structure <u>5b</u>).
- 7. (Withdrawn Currently amended) The method according to Claim 1, wherein the octadienal octadienylacetal acyclic terpene is a cis-3,7-dimethyl-2,6-octadienal-R-(-)-3,7-dimethyl-1,6-octadien-3-yl-acetal (neral-(-)-linalylacetal, Structure 6a) or a cis-3,7-dimethyl-2,6-octadienal-di(R-(-)-3,7-dimethyl-1,6-octadien-3-yl)-acetal (neral di-(-)-linalylacetal, Structure 6b).

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- 8. (Withdrawn Currently amended) The method according to Claim 1, wherein the octadienal octadienylacetal acyclic terpene is a cis-3,7-dimethyl-2,6-octadienal-cis-3,7-dimethyl-2,6-octadienyl-acetal (neral nerylacetal, Structure <u>7a</u>) or a cis-3,7-dimethyl-2,6-octadienyl-acetal (neral dinerylacetal, Structure <u>7b</u>).
- 9. (Withdrawn Currently amended) The method according to Claim 1, wherein the octadienal octadienal acyclic terpene is a trans-3,7-dimethyl-2,6-octadienal-trans-3,7-dimethyl-2,6-octadienyl-acetal (geranial geranylacetal, Structure 8a) or a trans-3,7-dimethyl-2,6-octadienyl-acetal (geranial digeranylacetal, Structure 8b).
- 10. (Withdrawn Currently amended) The method according to Claim 1, wherein the octadienal octadienylacetal acyclic terpene is a trans-3,7-dimethyl-2,6-octadienal-R-(-)-3,7-dimethyl-1,6-octadien-3-yl-acetal (geranial-(-)-linalylacetal, Structure 9a) or a trans-3,7-dimethyl-2,6-octadienal-di(R-(-)-3,7-dimethyl-1,6-octadien-3-yl)-acetal (geranial di-(-)-linalylacetal, Structure 9b).
- 11. (Withdrawn Currently amended) The method according to Claim 1, wherein the octadienal octadienylacetal acyclic terpene is a trans-3,7-dimethyl-2,6-octadienal-cis-3,7-dimethyl-2,6-octadienyl-acetal (geranial nerylacetal, Structure 10a) or a trans-3,7-dimethyl-2,6-octadienyl-acetal (geranial dinerylacetal, Structure 10b).
- 12. (Withdrawn Currently amended) The method according to Claim 1, wherein the octenal

octadienylacetal acyclic terpene is an R-(+)-3,7-dimethyl-6-octenal-trans-3,7-dimethyl-2,6-octadienyl-acetal ((+)-citronellal geranylacetal, Structure 11a) or an R-(+)-3,7-dimethyl-6-octenal-di(trans-3,7-dimethyl-2,6-octadienyl)-acetal ((+)-citronellal digeranylacetal, Structure 11b).

- 13. (Withdrawn Currently amended) The method according to Claim 1, wherein the <del>octenal</del> octadienylacetal acyclic terpene is an R-(+)-3,7-dimethyl-6-octenal-R-(-)-3,7-dimethyl-1,6-octadien-3-yl-acetal ((+)-citronellal-(-)-linalylacetal, Structure 12a) or an R-(+)-3,7-dimethyl-6-octenal-di(R-(-)-3,7-dimethyl-1,6-octadien-3-yl)-acetal ((+)-citronellal di-(-)-linalylacetal, Structure 12b).
- 14. (Withdrawn Currently amended) The method according to Claim 1, wherein the <del>octenal</del> <del>octadienylacetal</del> <u>acyclic terpene</u> is an R-(+)-3,7-dimethyl-6-octenal-cis-3,7-dimethyl-2,6-octadienyl-acetal ((+)-citronellal nerylacetal, Structure <u>13a</u>) or an R-(+)-3,7-dimethyl-6-octenal-di(cis-3,7-dimethyl-2,6-octadienyl)acetal ((+)-citronellal dinerylacetal, Structure 13b).
- 15. (Withdrawn Currently amended) The method according to Claim 1, wherein the octenal octadienylacetal acyclic terpene is an S-(-)-3,7-dimethyl-6-octenal-trans-3,7-dimethyl-2,6-octadienyl-acetal ((-)-citronellal geranylacetal, Structure 14a) or an S-(-)-3,7-dimethyl-6-octenal-di(trans-3,7-dimethyl-2,6-octadienyl)-acetal ((-)-citronellal digeranylacetal, Structure 14b).
- 16. (Withdrawn Currently amended) The method according to Claim 1, wherein the octenal octadienylacetal acyclic terpene is an S-(-)-3,7-dimethyl-6-octenal-R-(-)-3,7-dimethyl-1,6-

octadien-3-yl-acetal ((-)-citronellal-(-)-linalylacetal, Structure <u>15a</u>) or an S-(-)-3,7-dimethyl-6-octadien-di(R-(-)-3,7-dimethyl-1,6-octadien-3-yl)-acetal ((-)-citronellal di-(-)-linalylacetal, Structure <u>15b</u>).

- 17. (Withdrawn Currently amended) The method according to Claim 1, wherein the <del>octenal</del> octadienylacetal acyclic terpene is an S-(-)-3,7-dimethyl-6-octenal-cis-3,7-dimethyl-2,6-octadienyl-acetal ((-)-citronellal nerylacetal, Structure <u>16a</u>) or an S-(-)-3,7-dimethyl-6-octenal-di(cis-3,7-dimethyl-2,6-octadienyl)acetal ((-)-citronellal dinerylacetal, Structure 16b).
- 18. (Withdrawn Currently amended) The method according to Claim 1, wherein the octenul octenylacetal acyclic terpene is an R-(+)-3,7-dimethyl-6-octenal-R-(+)-3,7-dimethyl-6-octenylacetal ((+)-citronellal-(+)-citronellylacetal, Structure 17a) or an R-(+)-3,7-dimethyl-6-octenal-di(R-(+)-3,7-dimethyl-6-octenyl)-acetal ((+)-citronellal di-(+)-citronellylacetal, Structure 17b).
- 19. (Withdrawn Currently amended) The method according to Claim 1, wherein the octenal octadienylacetal acyclic terpene is an R-(+)-3,7-dimethyl-6-octenal-S-(-)-3,7-dimethyl-6-octenylacetal ((+)-citronellal-(-)-citronellylacetal, Structure 18a) or an R-(+)-3,7-dimethyl-6-octenal-di(S-(-)-3,7-dimethyl-6-octenyl)-acetal ((+)-citronellal di-(-)-citronellylacetal, Structure 18b).
- 20. (Withdrawn Currently amended) The method according to Claim 1, wherein the octenal octenylacetal acyclic terpene is an S-(-)-3,7-dimethyl-6-octenal-R-(+)-3,7-dimethyl-6-octenylacetal ((-)-citronellal-(+)-citronellylacetal, Structure 19a) or an S-(-)-3,7-dimethyl-6-octenal-di(R-(+)-3,7-dimethyl-6-octenyl)-acetal ((-)-citronellal di-(+)-citronellylacetal, Structure 19b).

- 21. (Withdrawn Currently amended) The method according to Claim 1, wherein the octenal octadienylacetal acyclic terpene is an S-(-)-3,7-dimethyl-6-octenal-S-(-)-3,7-dimethyl-6-octenylacetal ((-)-citronellylacetal, Structure 20a) or an S-(-)-3,7-dimethyl-6-octenal-di(S-(-)-3,7-dimethyl-6-octenyl)-acetal ((-)-citronellal di-(-)-citronellylacetal, Structure 20b).
- 22. (Withdrawn Currently amended) The method according to Claim 1, wherein the octadienal octadienal acyclic terpene is a cis-3,7-dimethyl-2,6-octadienal-R-(+)-3,7-dimethyl-6-octenyl-acetal (neral-(+)-citronellylacetal, Structure 21a) or a cis-3,7-dimethyl-2,6-octadienal-di(R-(+)-3,7-dimethyl-6-octenyl)-acetal (neral di(+)-citronellyl acetal, Structure 21b).
- 23. (Withdrawn Currently amended) The method according to Claim 1, wherein the octadienal octadienal acyclic terpene is a trans-3,7-dimethyl-2,6-octadienal-R-(+)-3,7-dimethyl-6-octenyl-acetal (geranial-(+)-citronellylacetal, Structure 22a) or a trans-3,7-dimethyl-2,6-octadienal-di(R-(+)-3,7-dimethyl-6-octenyl)-acetal (geranial di(+)-citronellyl acetal, Structure 22b).
- 24. (Withdrawn Currently amended) The method according to Claim 1, wherein the octadienal octadienal acyclic terpene is a cis-3,7-dimethyl-2,6-octadienal-S-(-)-3,7-dimethyl-6-octenyl-acetal (neral-(-)-citronellylacetal, Structure 23a) or a cis-3,7-dimethyl-2,6-octadienal-di(S-(-)-3,7-dimethyl-6-octenyl)-acetal (neral di(-)-citronellyl acetal, Structure 23b).
- 25. (Withdrawn Currently amended) The method according to Claim 1, wherein the

octadienal octadienylacetal acyclic terpene is a trans-3,7-dimethyl-2,6-octadienal-S-(-)-3,7-dimethyl-6-octenyl-acetal (geranial-(-)-citronellylacetal, Structure 24a) or a trans-3,7-dimethyl-2,6-octadienal-di(S-(-)-3,7-dimethyl-6-octenyl)-acetal (geranial di(-)-citronellyl acetal, Structure 24b).

- 26. (Withdrawn) The method according to Claim 1, wherein said insect repellent further comprises a saturated or unsaturated, aliphatic carboxylic acid C1 C12.
- 27. (Withdrawn) The method according to Claim 1 wherein said insect repellent further comprises benzoate selected from trans-3,7-dimethyl-2,6-octadienyl benzoate (geranyl benzoate, Structure 45), cis-3,7-dimethyl-2,6-octadienyl benzoate (neryl benzoate, Structure 46), R-(-)-3,7-dimethyl-1,6-octadien-3-yl benzoate ((-)-linalyl benzoate, Structure 47), R-(+)-p-menth-1-en-8-yl benzoate ((+)-terpinyl benzoate, 48), S-(-)-p-menth-1-en-8-yl benzoate ((-)-terpinyl benzoate, 49), R-(+)-3,7-dimethyl-6-octenyl benzoate ((+)-citronellyl benzoate, 50), S-(-)-3,7-dimethyl-6-octenyl benzoate, 51) or free benzoic acid or a mixture of these compounds.
- 28. (Withdrawn) The method according to Claim 1, wherein said insect repellent further comprises p-mentha-3,8-diol, selected from cis-p-mentha-3,8-diol (cis-isopulegol hydrate, Structure <u>52</u>) or trans-p-mentha-3,8-diol (trans-isopulegol hydrate, Structure <u>53</u>) or a mixture of them.
- 29. (Withdrawn) The method according to Claim 1, wherein said insect repellent further

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comprises hydroxy octanal selected from R-(+)-3,7-dimethyl-7-hydroxy octanal ((+)-citronellal hydrate, Structure <u>54</u>) or an S-(-)-3,7-dimethyl-7-hydroxy octanal ((-)-citronellal hydrate, Structure <u>55</u>) or a mixture of them.

- 30. (Withdrawn) The method according to Claim 1, wherein said insect repellent further comprises  $(2^{\pm},4aR^{\pm},7R,8aR^{\pm},-2-((R)-2,6-dimethylhept-5-enyl)-4,4,7-trimethylhexohydro$ benzo[1,3]dioxin (trans-(+)-citronellal-p-mentha-3,8-diylacetal, Structure 56) or  $(2^{\pm},4aR^{\pm},7R,8aS^{\pm},-2-((R)-2,6-dimethylhept-5-enyl)-4,4,7-trimethylhexohydro-benzo[1,3]dioxin$ (cis-(+)-citronellal-p-mentha-3,8-diylacetal, Structure 57) or (2=,4aR=,7R,8aR=,-2-((S)-2,6dimethylhept-5-enyl)-4,4,7-trimethylhexohydro-benzo[1,3]dioxin (trans-(-)-citronellal-p-mentha-3,8-divlacetal, Structure 58)  $(2^{\pm},4aR^{\pm},7R,8aS^{\pm},-2-((S)-2,6-dimethylhept-5-enyl)-4.4.7$ or trimethylhexohydro-benzo[1,3]dioxin (cis-(-)-citronellal-p-mentha-3,8-diylacetal, Structure 59) or containing a mixture of them.
- 31. (Withdrawn) The method of claim 1, wherein said insect repellent further comprises octanoic acid (caprylic acid) or decanoic acid (capric acid)
- 32. (Withdrawn) The method of claim 1, wherein said insect repellent further comprises a benzoate.